

10/523191

SEQUENCE LISTING

<110> Kaneka Corporation,
Nagoya Industrial Science Research Institute (Chubu
Technology Licensing Office)

<120> Method of expressing gene in transgenic birds using
retrovirus vector and transgenic birds thus obtained

<130> T753/TRANS-1

<150> JP P2002-236089

<151> 2002-08-13

<160> 37

<210> 1

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer used for PCR
amplification of the Miw promoter 5' region fragment

<400> 1

cggctctagag gaattcagtg gttcg 25

<210> 2

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer incorporating the
BamH I recognition site at the 5' terminal used for PCR
amplification of the Miw promoter 5' region fragment

<400> 2

ccaggatccg acgttgtaaa acgacg 26

<210> 3

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer incorporating the

Hind III recognition site at the 5' terminal used for PCR amplification of the Miw promoter 3' region fragment

<400> 3
ccaaagcttg ccgcagccat tgcctttt 28

<210> 4
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 3'-primer incorporating the Bln I recognition site at the 5' terminal used for PCR amplification of the Miw promoter 3' region fragment

<400> 4
atacctaggg gctggctgcg gaggaac 27

<210> 5
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 5'-primer incorporating the Nhe I recognition site at the 5' terminal used for PCR amplification of the chicken beta-actin promoter fragment lacking the intron

<400> 5
tttagctagc tgcagctcag tgcatgcac 29

<210> 6
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 3'-primer incorporating the Xba I recognition site at the 5' terminal used for PCR amplification of the chicken beta-actin promoter fragment lacking the intron

<400> 6
ataatctaga aacgcagcga ctccccgc 27

<210> 7
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 5'-primer incorporating the Xho I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody light chain kappa constant region

<400> 7
atcctcgaga ggccaaagta cagtg 25

<210> 8
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 3'-primer incorporating the BamH I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody light chain kappa constant region

<400> 8
cccggatccc taacactctc ccctgttgaa gct 33

<210> 9
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 5'-primer incorporating the Not I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody light chain variable region

<400> 9
agcggccgct acaggtgtcc actccgacat cgtgatgacc cagtctcc 48

<210> 10
<211> 34
<212> DNA
<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer incorporating the Xho I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody light chain variable region

<400> 10

cctctcgagg atagaagtta ttcagcaggc acac 34

<210> 11

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer incorporating the Xho I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody heavy chain mu constant region

<400> 11

acctcgagcg tggccgttgg ctgcctcgca ca 32

<210> 12

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer incorporating the Hind III recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody heavy chain mu constant region

<400> 12

actaagctta cgttgtagag ggtgggttta cc 32

<210> 13

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer incorporating the Not I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody

heavy chain variable region

<400> 13

agcggccgct acaggtgtcc actccgaggt gcagctgggtg gagtctgg 48

<210> 14

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer incorporating the Xho I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody heavy chain variable region

<400> 14

cacgctcgag gtatccgacg gggaattctc acagga 36

<210> 15

<211> 49

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer incorporating the Hind III recognition site at the 5' terminal used for DNA polymerase reaction to construct the coding fragment of the human epidermal growth factor receptor transmembrane region

<400> 15

cccaagcttg atctccactg ggatgggtggg ggccctcctc ttgctgctg 49

<210> 16

<211> 78

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer incorporating the BamH I recognition site at the 5' terminal used for DNA polymerase reaction to construct the coding fragment of the human epidermal growth factor receptor transmembrane region

<400> 16

cccgatcct cagtcaaggc gccttcgcat gaagaggccg atccccaggg
ccaccaccag 60

cagcaagagg agggcccc 78

<210> 17

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide used for site-directed mutagenesis to generate the Nar I recognition site at the 3' terminal of the coding fragment of the human antibody light chain variable region

<400> 17

tgaagacaga tggcgccgcc acagttcggt t 31

<210> 18

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide used for site-directed mutagenesis to generate the BamH I recognition site at the 3' terminal of the coding fragment of the human antibody heavy chain variable region

<400> 18

tggggcggat gcggatcctg aggagacggt 30

<210> 19

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer incorporating the Not I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the mouse antibody light chain variable region

<400> 19

cgcgccgcc tcagggaaag tttgaagatg 30

<210> 20

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer incorporating the Nar I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the mouse antibody light chain variable region

<400> 20

cggcgccgcc acagtccgtt ttatttccag cttggt 36

<210> 21

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer incorporating the Not I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the mouse antibody heavy chain variable region

<400> 21

cgcgccgcgc aacacggamc cctcaccatg 30

<210> 22

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer incorporating the BamH I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the mouse antibody heavy chain variable region

<400> 22

cggatcctgc agagacagtg accagagt 28

<210> 23

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer used for PCR

amplification of the coding fragment of the human antibody heavy chain gamma-1 constant region

<400> 23

caagcttcaa gggcccat 18

<210> 24

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer used for PCR amplification of the coding fragment of the human antibody heavy chain gamma-1 constant region

<400> 24

atttacccgg agacaggga 19

<210> 25

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer incorporating the BamH I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody heavy chain gamma-1 constant region

<400> 25

ataggatccg ctagcttcaa gggcccatcg 30

<210> 26

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer incorporating the Hind III recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody heavy chain gamma-1 constant or Fc region

<400> 26

agcaagcttt catttacccg gagacaggga 30

<210> 27
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 5'-primer incorporating the Sal
I recognition site at the 5' terminal used for PCR
amplification of the chicken beta-actin promoter fragment
lacking the intron

<400> 27
acgcgtcgac gtgcatgcac gctcattg 28

<210> 28
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 3'-primer incorporating the Sal
I recognition site at the 5' terminal used for PCR
amplification of the chicken beta-actin promoter fragment
lacking the intron

<400> 28
acgcgtcgac aacgcagcga ctccccg 26

<210> 29
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 5'-primer incorporating the Sal
I recognition site at the 5' terminal used for PCR
amplification of the coding fragment of the antibody kappa
light chain

<400> 29
aatgtcgaca tgggtgtccac ttctcagctc 30

<210> 30
<211> 30
<212> DNA
<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer incorporating the Sal I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the antibody kappa light chain

<400> 30

ttcgtcgacc taacactctc ccctgttgaa 30

<210> 31

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer incorporating the Sal I recognition site at the 5' terminal used for PCR amplification of the IRES fragment

<400> 31

acgcgtcgac cgcccctctc cctccccc 28

<210> 32

<211> 43

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer incorporating the Xho I recognition site at the 5' terminal used for PCR amplification of the IRES fragment

<400> 32

ccgctcgaga ttatcatcgt gtttttcaaa ggaaaaccac gtc 43

<210> 33

<211> 61

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide acting as a sense chain in annealing to construct the coding fragment of the chicken lysozyme secretion signal

<400> 33

ctagaccatg aggtctttgc taatcttggt gctttgcttc ctgcccctgg
ctgctctggg 60
g 61

<210> 34
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed oligonucleotide acting as an anti-sense chain
in annealing to construct the coding fragment of the chicken
lysozyme secretion signal

<400> 34
ccccagagca gccaggggca ggaagcaaag caccaagatt agcaaagacc
tcatggt 57

<210> 35
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 5'-primer incorporating the Dra
I recognition site at the 5' terminal used for PCR
amplification of the scFv coding fragment

<400> 35
gcgttttaaag tgacgttgga cgtccg 26

<210> 36
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 3'-primer incorporating the
BamH I recognition site at the 5' terminal used for PCR
amplification of the scFv coding fragment

<400> 36
attaggatcc gcgcttaagg acggtcagg 29

<210> 37
<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer incorporating the BamH I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody heavy chain gamma-1 Fc region

<400> 37

attaggatcc gagcccaaatt cttgtgacaa aactc 35